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[1. AF141-074: Developing Failure Stability in High-Reliability Sensor Design and Applications](#)

Release Date: 11-20-2013 Open Date: 12-20-2013 Due Date: 01-22-2014 Close Date: 01-22-2014

OBJECTIVE: Develop an innovative engine sensor system for harsh environmental conditions that is more reliable and affordable than existing passive control and monitoring sensors for legacy and future turbine engine platforms. DESCRIPTION: A significant challenge in developing aerospace engine and vehicle sensor systems is reliability. The issues involve multiple considerations, including ...

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[2. AF141-075: Improved Design Package for Fracture Mechanics Analysis](#)

Release Date: 11-20-2013 Open Date: 12-20-2013 Due Date: 01-22-2014 Close Date: 01-22-2014

OBJECTIVE: Develop an improved software design package that better accounts for short crack effects in crack growth. DESCRIPTION: Linear elastic fracture mechanics (LEFM) methods are used extensively in aerospace to perform crack growth life predictions. These methods are sometimes erroneously applied in cases where the initial defect size assumptions are outside the range of strict LEFM a ...

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[3. AF141-076: Modular Flexible Weapons Integration](#)

Release Date: 11-20-2013 Open Date: 12-20-2013 Due Date: 01-22-2014 Close Date: 01-22-2014

OBJECTIVE: Develop store carriage technology for advanced aircraft that will increase weapons load out, reduce drag, extend range, and not compromise survivability over current carriage techniques. DESCRIPTION: The mission of tactical, strike, and attack aircraft, manned or unmanned, is to deliver an effective load of weapons to the designated target with minimal collateral damage. In orde ...

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[4. AF141-080: Air Cycle Toolsets for Aircraft Thermal Management System \(TMS\) Optimization](#)

Release Date: 11-20-2013 Open Date: 12-20-2013 Due Date: 01-22-2014 Close Date: 01-22-2014

OBJECTIVE: Development of complementary hardware and software toolsets which allow assessment and characterization of different military aircraft air cycle or hybrid-cycle thermal management system architectures. DESCRIPTION: Current tactical aircraft face enormous challenges associated with increasing operational envelope while reducing fuel burn. To that aim, there is a growing desire wi ...

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[5. AF141-081: Launch Vehicle Systems Intended to Execute Suppressed Trajectories for Hypersonic Testing](#)

Release Date: 11-20-2013 Open Date: 12-20-2013 Due Date: 01-22-2014 Close Date: 01-22-2014

OBJECTIVE: Develop an innovative approach(es) for new and/or existing launch systems to execute suppressed trajectories for hypersonic flight testing. Perform analysis and testing to mature technology, validate models, reduce risk, and demonstrate capability. DESCRIPTION: The Air Force is working on next-generation hypersonic systems for various missions, including high-speed strike, space ...

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[6. AF141-082: Development of Approaches to Minimize Icing in Aircraft Heat Exchanger/Condenser Applications](#)

Release Date: 11-20-2013 Open Date: 12-20-2013 Due Date: 01-22-2014 Close Date: 01-22-2014

OBJECTIVE: Develop and evaluate innovative concepts to minimize icing in heat exchanger/condenser applications associated with an air cycle machine for aircraft cooling requirements. DESCRIPTION: The demand for thermally unconstrained operations for aircraft has been driving the research of integrated thermal management designs for several years. Recent turbine engine efforts have focused o ...

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7. AF141-083: Smart Aircraft Conceptual Design in Multidisciplinary Design Optimization

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: Develop and demonstrate a smart conceptual design tool to enable improved estimates of performance, including weight and balance associated with early definition of subsystems layout and integration. DESCRIPTION: A conceptual design is characterized as authentic (a closed design) when it includes an authentic development process to define primary parameters that predict the airc ...

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8. AF141-084: Radiation Model Development for Combustion Systems

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: Development of physics-based engineering models and corresponding validation procedures as well as associated modules/libraries for radiation heat transfer prediction in combustion systems of relevance to the Air Force (AF). DESCRIPTION: Advanced physics-based modeling and simulation (M & S) tools are playing an increasingly important role in the design of high-performing combus ...

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9. AF141-086: Lightweight Detachable Roll Control System

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: Develop and validate a lightweight, detachable roll control system design that can be integrated with a solid rocket motor and successfully control the motor's spin rate. DESCRIPTION: The current Minuteman III (MM III) guidance system requires the vehicle to minimize the spin rate by utilizing a roll control system. The roll control system itself is relatively large and heavy, w ...

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10. AF141-087: Additive manufacturing of Liquid Rocket Engine Components

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: Develop and demonstrate additive manufacturing processes for low-rate production of highly complex liquid rocket engine components. DESCRIPTION: Manufacturing process development for rocket applications poses significant technical challenges due to the low production rate, the high complexity of the parts, and the harsh environments in which the parts must operate. The typical p ...

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